

Title (en)

ROLLING MILL STAND AND RELATED ROLLING MILL FOR LONGITUDINALLY ROLLING ROD-SHAPED BODIES

Title (de)

WALZGERÜST UND VERWANDTES WALZWERK ZUM LÄNGSWALZEN VON STANGENFÖRMIGEN KÖRPERN

Title (fr)

CAGE DE LAMINOIR ET LAMINOIR ASSOCIÉ POUR LAMINER LONGITUDINALEMENT DES CORPS EN FORME DE TIGE

Publication

EP 2313212 A1 20110427 (EN)

Application

EP 09749904 A 20090521

Priority

- EP 2009056201 W 20090521
- IT MI20080947 A 20080522

Abstract (en)

[origin: WO2009141414A1] A rolling mill stand and related rolling mill for rolling rod-shaped bodies, even large in size, which meets the requirement of stiffness uniformity of the rolling mill stands in the transversal direction, all the hydraulic capsules being firmly fixed to the external structure of the rolling mill and providing for the side change of the rolls of each stand. The arrangement of rolling rolls and related extensions of each rolling mill stand is such to avoid problems of corrosion and damaging to the extensions themselves and to the reducers due to the drainage of the cooling waters.

IPC 8 full level

B21B 13/10 (2006.01); **B21B 17/04** (2006.01); **B21B 31/10** (2006.01)

CPC (source: EP US)

B21B 13/103 (2013.01 - EP US); **B21B 13/12** (2013.01 - EP US); **B21B 17/04** (2013.01 - EP US); **B21B 31/10** (2013.01 - EP US); **B21B 31/20** (2013.01 - EP US); **B21B 13/04** (2013.01 - EP US); **B21B 17/14** (2013.01 - EP US); **B21B 31/103** (2013.01 - EP US); **B21B 2203/06** (2013.01 - EP US); **Y10T 29/49815** (2015.01 - EP US)

Citation (search report)

See references of WO 2009141414A1

Cited by

DE102014222444A1; DE102014222444B4; WO2015067742A1; US9573177B2; US11827608B2; US11542238B2; US11548856B2; US11760731B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2009141414 A1 20091126; BR PI0912315 B1 20200623; CA 2724417 A1 20091126; CA 2724417 C 20150217; CN 102036762 A 20110427; CN 102036762 B 20130515; EP 2313212 A1 20110427; EP 2313212 B1 20120620; HR P20120571 T1 20120831; IT MI20080947 A1 20091123; JP 2011520617 A 20110721; JP 5591227 B2 20140917; KR 101492848 B1 20150212; KR 20110025919 A 20110314; MX 2010012704 A 20110315; RU 2010152356 A 20120627; RU 2516112 C2 20140520; US 2011226031 A1 20110922; US 2013133392 A1 20130530; US 2013298631 A1 20131114; US 8341994 B2 20130101; US 8640516 B2 20140204; US 9180502 B2 20151110

DOCDB simple family (application)

EP 2009056201 W 20090521; BR PI0912315 A 20090521; CA 2724417 A 20090521; CN 200980118347 A 20090521; EP 09749904 A 20090521; HR P20120571 T 20120710; IT MI20080947 A 20080522; JP 2011509991 A 20090521; KR 20107028761 A 20090521; MX 2010012704 A 20090521; RU 2010152356 A 20090521; US 201213713620 A 20121213; US 201313941291 A 20130712; US 73687209 A 20090521